DTC-Rec'd PCT/PTO 0 6 JUL 2004

Attorney Docket No. 56792-PCT (71699)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

JOHNS HOPKINS UNIVERISTY

INVENTOR:

Daniel W. CHAN, et al.

INT. APPLN. NO.:

PCT/US03/00531

FILED:

07 January 2003

FOR:

BIOMARKERS FOR DETECTING OVARIAN CANCER

BOX PCT

THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS WASHINGTON, DC 20231

Attn:

RO/US

Authorized Officer: Kareem Duncan

CERTIFICATE OF EXPRESS MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 (Express Mail Label No. EL932685774US), and is addressed to the Commissioner for Patents, Washington, D.C. 20231 on April 11, 2003.

Reth Ann Marino

SIR:

RESPONSE TO INVITATION TO CORRECT DEFECTS IN THE INTERNATIONAL APPLICATION

An Invitation to Correct Defects was mailed on February 13, 2003, for the above-referenced international application. A request for a one month extension of time was requested on March 13, 2003, (a copy of which was enclosed.)

In response to the Invitation, enclosed please find:

(1) A copy of the Invitation to Correct Defects in the International Application mailed February 13, 2003.

DT04 Rec'd PCT/PTO 0 6 JUL 2004

- (2) A copy the request for Extension of Time to respond to the Invitation to Correct Defects in the International Application.
- (3) A General Power of Attorney signed by the Johns Hopkins University as indicated in Annex A (1d) pursuant to Rules 4.15 and 90.4.

Although it is believed that no additional extension fee(s) are necessary to consider this submission, the PCT is hereby authorized to charge our Deposit Account No. 04-1105 should any fee be necessary.

Please contact the undersigned attorney if any additional information is needed.

Respectfully submitted,

Date: April 11, 2003

Lisa Swiszcz Hazzard

Reg. No. 44,368

Agent for Applicant(s)

Intellectual Property Practice Group EDWARDS & ANGELL, LLP P.O. Box 9169 Boston, MA 02209

Tele: (617) 439-4444 Customer No. 21,874

BOS2_331946.1

PATENT COOPERATION TREATY



From the RECEIVING OFFIC

To: PETER F. CORLESS	PCT			
EDWARDS & ANGELL, LLP P. O. BOX 9169 BOSTON, MASSACHUSETTS 02209	INVITATION TO CORRECT DEFECTS IN THE INTERNATIONAL APPLICATION			
(1699	(PCT Articles 3(4)(i) and 14(1) and Rule 26)			
	Date of mailing (day/month/year) 13 Feb 2003			
Applicant's or agent's file reference	REPLY DUE			
56792-PCT	from the above date of mailing			
International application No. PCT/US03/00531	International filing date (day/month/year) 07 Jan 2003			
Applicant				
JOHNS HOPKINS UNIVERSITY				
Annex B1 (text matter of the international app	plication as filed)			
Annex B2 (text matter of the translation of the Annex C2 (drawings of the translation of the				
Additional observations (if necessary):	Edwards & Angell LLF Dike, Bronstein, Roberts & Cushman 101 Federal St. Boston, MA 02114 Date Rec'd Docketed For 2			
HOW TO CORRECT THE DEFECTS?	Approved -			
Correction must be submitted by filing a replacement sheet embodying the correction and a letter accompanying the replacement sheet, which shall draw attention to the difference between the replaced sheet and the replacement sheet. A correction may be stated in a letter only if it is of such a nature that it can be transferred from the letter to the record copy without adversely affecting the clarity and direct reproducibility of the sheet onto which the correction is to be transferred (Rule 26.4(a)).				
ATTENTION	·			
Failure to correct the defects will result in the international ap (see Rule 26.5 for further details).	plication being considered withdrawn by this receiving Office			
A copy of this invitation and any attachments has been sent to the and the International Searching Authority.	International Bureau			
ame and mailing address of the receiving Office	Authorized officer Kareera Duncan			
Assistant Commissioner for Patent, Box PCT Vashington, D.C. 20231 Attn:RO/US	Kareem Duncan Paralegal Specialist PCT OPERATIONS TEAM 1			

Telephone No.

Facsimile No. 703-305-3230 Form PCT/RO/106 (July 1998)

ANNEX A TO FORM PCT/RO/106

International application No.

Th	PCT///Const
The receiving Office has found the following defects in the international applic	PCT/US03/00531
1. As to signature * of the international applic	ation as filed:
1. As to signature* of the international application (Rules 4.15 and 90.4), the request: a. is not signed.	
b. is not signed by all applicants	
is not accompanied by the statement of	
c. is not accompanied by the statement referred to in the check list in Box No. of the signature of an applicant for the designation of the United States of A is signed by what appears to be an agent/common server.	VIII of the request explaining the lack
and by what appears to be an agent/-	incrica.
	•
the power of attorney accompanying the international application wa	ney appointing him.
Typestion was	s not signed by all the applicants.

* All applicants must sign in al. 4:	
* All applicants must sign, including inventors if they are also applicants (e.g. where the Un 2. As to indications concerning the applicant, the request (Pulse 4.4).	ited States and a
2. As to indications concerning the applicant, the request (Rules 4.4 and 4.5): a. does not properly indicate the continuous and does not prepeat the continuous and does not properly indicate the continuou	ned States of America is designated).
a. does not properly indicate the applicant's name (specify):	
b. does not indicate the applicant's address.	
c. does not properly indicate the applicant's address (specify):	
applicant's address (specify):	
d. ☐ dozeni ii	
does not indicate the applicant's notice	•
e. does not indicate the applicant's residence. f. other (specify):	
Astothala	· -
26.3 ter(a) and (c)):	
As to the language of certain elements of the international application, other than the description and (c)): a. the request is not in a language which is both a large which is the request is not in a language.	iption and claims (Rules 12.1(c) and
a. the request is not in a language which is both a language accepted by this receiving which is (are):	Office and a language
	a ranguage of publication,
	·
the text matter of the drawings is not in the language in which the international app	-
anguage in which the international app	lication is to be published which :
	ı
c the abstract is not in the language in which the international application is to be published.	1
and the international application is to be published	hed, which is:
	-
he title of the invention:	1
13 Hot Indicated in Box No. 1	
is not indicated at the top of the first sheet of the description (Rule 5.1(a)). as appearing in Box No. I of the request is not identical.	
as appearing in Box No. I of the request is not identical with the title heading the description (Rule 5.1(a)). to the abstract (Rule 8):	
to the abstract (Rule 8):	tion (Rule 5.1(a)).
the international and it	
and application de	
the international application does not contain an abstract. (RO/106 (Annex A) (July 1998)	

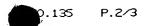
PCT.

GENERAL POWER OF ATTORNEY -

(for several international applications filed under the Patent Cooperation Treaty)

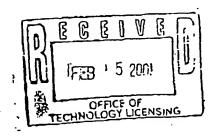
(PCT Rule 90.5)

The undersigned person(s):	
(Family name followed by given name; for a full legal entity, full official design name of country.)	nation. The address must include postal code and
The Johns Hopkins University School of Medicine 2024 East Monument Street	
Suite 2-100 Baltimore, Mayland 21205 United States of America	
hereby appoint(s) the following person as:	common representative
Name and address (Family name followed by given name; for a legal entity, full official designation country.)	The address must include postal code and name of
Dike, Bronstein, Roberts & Cushman, Intellectual Property Practice Group EDWARDS & ANGELL, LLP	
P.O. Box 9169, Boston, Massachusetts 02209, U.S.A.	David & Tueker (Pag No 27 840)
David G. Conlin (Reg. No. 27,026) Cara Z. Lowen (Reg. No. 38,227) George W. Neuner (Reg. No. 26,964) William J. Daley, Jr. (Reg. No. 35,4	David A. Tucker (Reg. No. 27,840) 187) George W. Hartnell, III (Reg. No. 42,639)
Linda M. Buckley (Reg. No. 31,003) Robert L. Buchanan (Reg. No. 40,92	(7) Peter F. Corless (Reg. No. 33,860)
Christine C. O'Day (Reg. No. 38,256) Steven M. Jensen (Reg. No. 42,6 Peter J. Manus (Reg. No. 26,766) Lisa Hazzard Swiszcz (Reg. No. 4	93) Stuart L. Gitler (Reg. No. 31,256) 4,368) Kathryn A. Piffat (Reg. No. 34,901)
to represent the undersigned before	International Authorities
the International	Searching Authority only
the International	Preliminary Examining Authority only
in connection with any and all international applications filed by the undersigned w	with the following Office
United States Receiving Office	as receiving Office
and to make or receive payments on behalf of the undersigned.	
The same and of them must sign, most to	and simplified indicate the name of the person
Signature(s) (where there are several persons, each of them must sign; next to signing and the capacity in which the person signs, if such capacity is not obvious f	rom reading this power):
for THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE:	
DITRA	
Name: R. Keith Baker, Ph.D.	
Acting Director, Title: Office of Technology Licensing	
	,
•	
•	
~ M 00 2001	
Date: May 08, 2001	





Edward O. Miller, M.D. The frances War Caker, M.D. and Lenox O. Beker, Jr., M.D. Dean of the Medical Faculty Chief Executive Officer



MEMORANDUM

TO:

Department Chairmen, Principal Investigators and Department Administrators

FROM:

Edward D. Miller, M.D.

Denn of the Medical Faculty

CEO, Johns Hopkins Medicine

DATE:

February 9, 2001

RE:

Institutional Official Signing Authority for Grants, Contracts and Other Research Related

Documents (Effective 02/09/01)

Listed below are the primary institutional officials who are authorized to sign sponsored research and technology transfer documents on behalf of The Johns Hopkins University School of Medicine:

Cbi V. Dang, M.D., Ph.D.

Michael B. Amey

R. Keith Baker, Ph.D.

William Tew Ph.D.

Vice Dean for Research

Assistant Dean for Research Administration

Acting Director, Office

Executive Director of of Technology Licensing Licensing & Business

Development

Julie Gottlieb Special Assistant for Research Affairs

Barbara L. Starklauf Assistant Dean and Administrator, Human

Subjects Committees

Sponsored Research Administrators (SRA)1 Stewart P. Craig, Sponsored Research Administrator Joanne Frantz, Sponsored Research Administrator Michelle P. Linehan, Sponsored Research Administrator Dennis Paffrath, Sponsored Research Administrator

Linda B. Queen, Asst. Director, Research Administration

Please prepare the appropriate signature block on documents that need to be signed. If another institutional officer must sign due to unavailability of the primary official, the signature provided will be "for" the individual listed.

TYPE OF DOCUMENT	FORWARD TO:	SIGNATURE BY:
Competing Grant Applications to	ORA	Sponsored Research Administrator
Govt/Non-Profit Sponsors		
Non-competing Grant Applications to	ORA	Sponsored Research Administrator/or
Govt/Non-Profit Sponsors		Department Administrator where
· · · · · · · · · · · · · · · · · · ·		authorized

^{&#}x27; See department delegation Sponsored Projects Handbook, Appendix A, (http://infonet.jhu.edu/admin/spons project/handbook/).

TYPE OF DOCUMENT	FORWARD TO:	SIGNATURE BY:
Non-Disclosure Agreements related to	ORA.	M.Amey
Sponsored Research		
Contracts2	ORA	M_Amey
(proposals and awards, all sponsors)		
Contracts that include a license	ORWOTL	C. Dang or W. Tew
Master Agreements	ORA	C,Dang
Prior Approval Requests and	ORA	Sponsored Research Administrator
Administrative Updates for all grants		{
(e.g., revised other support pages and	,	1
letters requesting administrative action)		
Indemnification Agreements	ORA .	M.Amey
Awarded Contract Admin. Actions	ORA	Sponsored Research Administrator
(not increased workscope or \$)		
Final Invention Statements	ORA	Sponsored Research Administrator
Relinquishment Statements	ORA	Sponsored Research Administrator
Certificate of Animal Care and Use	ORA	Sponsored Research Administrator
Approval		
Certification of Human Subjects	JCCI (B.Starklauf, or Sponsored Research
Research Approval Status		Administrator
Consulting Agreements	CCOI	J. Gottlieb (when JHU signature required
License and Option Agreements	OTL	W. Tew
Material Transfer Agreements	OTL	K. Baker or W. Tew
Non-Disclosure Agreements related to	OTL	K. Baker or W. Tew
Licensing and Consulting	<u> </u>	
Patent Related Documents	OTL	K,Baker
(Power of Attorney)		1.01
Confirmatory License to the Government	OTL	K.Baker
Stock Related Agreements	OTL	W. Tew
(Stack Escrow, Stock Purchase etc.)		

	Office of Research Administration Joint Committee on Conflict of Interest Committee on Conflict of Interest	•	SOM Admin. Bldg., Room 129 Turner 36 111 Market Place, Suite 1030 111 Market Place, Suite 906	5-3008 410-223-1608 410-347-3222
OTL	Office of Technology Licensing		111 Market Place, Suite 906	410-341-3222

²Note: All proposals to commercial sponsors are considered contracts.

or, if two or more Authorities are licated by the applicant on the line

IPEA/ US

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

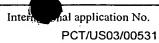
For International Preliminary Examining Authority use only				
Identification of IPEA		Date of receipt of D	EMAND	
Box No. I IDENTIFICATION OF THE INTERNATIONAL APPLICATION		APPLICATION	Applicant's or agent's file reference 56792-PCT (71699)	
International application No.	International filing date	(day/month/year)	(Earliest) Priority date (day/month/year)	
PCT/US03/00531	07 January 2003	(07/01/03)	07 January 2002 (07/01/02)	
Title of invention BIOMARKERS FOR DETECTING OV	ARIAN CANCER			
Box No. II APPLICANT(S)				
Name and address: (Family name followed designation. The addres	by given name; for a less must include postal code	gal entity, full official and name of country.)	Telephone No.	
JOHNS HOPKINS UNIVERSITY 720 Rutland Avenue			Facsimile No.	
Baltimore, Maryland 21205 US		·· · · · · · · · · · · · · · · · · · ·	Teleprinter No.	
			Applicant's registration No. with the Office	
State (that is, country) of nationality: US	•	State (that is, country US	y) of residence:	
Name and address: (Family name followed name of country.)	by given name; for a legal	entity, full official design	nation. The address must include postal code and	
CHAN, Daniel W.				
12925 Wexford Park				
Clarksville, Maryland 21029-1401 US				
			•	
			,	
State (that is, country) of nationality:		State (that is, country	y) of residence:	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and				
name of country.) ZHENG, Zhen				
14104 Big Branch Drive				
Dayton, Maryland 21036				
US				
			•	
	· · · · · · · · · · · · · · · · · · ·	T	<u> </u>	
State (that is, country) of nationality:		State (that is, country	y) of residence:	
Further applicants are indicated on	a continuation sheet.			



Sheet No. .2.

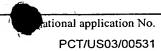
Continuation of Box No. II APPLICANT(S)			
If none of the following sub-boxes is used, this sheet should not be included in the demand.			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)			
RAI, Alex Jaideep 42 Benjamin Place Staten Island, New York 10303 US			
State (that is, country) of nationality:	State (that is, country) of residence:		
US	us		
Name and address: (Family name followed by given name; for a legal of name of country.)	entity, full official designation. The address must include postal code and		
	· .		
	·		
State (that is, country) of nationality:	State (that is, country) of residence:		
Name and address: (Family name followed by given name; for a legal name of country.)	entity, full official designation. The address must include postal code and		
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. Y			
•	4		
	·		
State (that is, country) of nationality:	State (that is, country) of residence:		
Name and address. (Earth warms followed by given name; for a local	entity, full official designation. The address must include postal code and		
name of country.)	entity, juli official designation. The dualess must metade postar code and		
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State (that is, country) of nationality:	State (that is, country) of residence:		
Further applicants are indicated on another continuation	sheet.		





Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE		
The following person is agent common representative		
and has been appointed earlier and represents the applicant(s) also for international	al preliminary examination.	
is hereby appointed and any earlier appointment of (an) agent(s)/common rep	resentative is hereby revoked.	
is hereby appointed, specifically for the procedure before the International Procedure	reliminary Examining Authority, in	
addition to the agent(s)/common representative appointed earlier.	Telephone No.	
Name and address: (Family name followed by given name; for a legal entity, full official The address must include postal code and name of country.)	(617) 439-4444	
CORLESS, Peter F.	Facsimile No.	
EDWARDS & ANGELL, LLP P.O. Box 9169	(617) 439-4170	
Boston, Massachusetts 02209	Teleprinter No.	
US	Agent's registration No. with the Office	
	33,860	
Address for correspondence: Mark this check-box where no agent or comme	on representative is/has been appointed and	
the space above is used instead to indicate a special address to which correspond	ndence should be sent.	
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION		
Statement concerning amendments:*		
1. The applicant wishes the international preliminary examination to start on the basis of	f:	
the international application as originally filed		
the description as originally filed		
as amended under Article 34	esanta.	
the claims as originally filed		
as amended under Article 19 (together with any accompa	anying statement)	
as amended under Article 34		
the drawings as originally filed	·	
as amended under Article 34	_	
The applicant wishes the start of the international preliminary examination to be postponed until the expiration of 20		
amendments made under Article 19 or a notice from the applicant that he (Rule 69.1(d)). (This check-box may be marked only where the time limit un	ining Authority receives a copy of any loes not wish to make such amendments	
* Where no check-box is marked, international preliminary examination will start on the basis of the international application as originally filed or, where a copy of amendments to the claims under Article 19 and/or amendments of the international application under Article 34 are received by the International Preliminary Examining Authority before it has begun to draw up a written opinion or the international preliminary examination report, as so amended.		
Language for the purposes of international preliminary examination: English		
which is the language in which the international application was filed.		
which is the language of a translation furnished for the purposes of international search.		
which is the language of publication of the international application.		
which is the language of the translation (to be) furnished for the purposes of international preliminary examination.		
Box No. V ELECTION OF STATES		
The applicant hereby elects all eligible States (that is, all States which have been designated and which are bound by Chapter II of the PCT)		
excluding the following States which the applicant wishes not to elect:		





Вох	No. VI CHECK LIST	•			
The Box	e demand is accompanied by the following to No. IV, for the purposes of international pr	elements, in the language reliminary examination:	referred to in		onal Preliminary uthority use only not received
1.	translation of international application	:	sheets		. 🗆
2.	amendments under Article 34	:	sheets		
3.	copy (or, where required, translation) of amendments under Article 19	:	sheets		
4.	copy (or, where required, translation) of statement under Article 19	. :	sheets		<u> </u>
5.	letter	: .	sheets		
6.	other (specify)	:	sheets		
The	demand is also accompanied by the item(s) i	marked below:	statement ex	plaining lack of signa	ture
2.	original separate power of attorney	6.	sequence lis	tings in computer read	lable form
3.	original general power of attorney	7.	tables in cor sequence lis	nputer readable form	related to
4.	copy of general power of attorney; reference number, if any:	8.	other (speci	fy):	
Box No. VII SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the demand).					
Pet	ter F. Corless				
Ag	ent for Applicants		-		
				•	•
	·				
<u></u>	Po- Internet	ational Preliminary Examin	ing Authority	use only	
1.	Date of actual receipt of DEMAND:	ational Fremmay Exami	ing Authority.		
Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):					
The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. The applicant has been informed accordingly.					
4. The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.					
5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.					
		For International Burea	u use only —		
Dei	mand received from IPEA on:				



CHAPTER II

PCT

FEE CALCULATION SHEET

Annex to the Demand

International application No. PCT/US03/00531	For International Preliminary Examining Authority use only			
Applicant's or agent's file reference 56792-PCT (71699)	e stamp of the IPEA			
Applicant JOHNS HOPKINS UNIVERSITY et al.				
CALCULATION OF PRESCRIBED FEES				
Preliminary examination fee	490.00 P			
2. Handling fee (Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.) 3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box	172.00 H 662.00 TOTAL			
MODE OF PAYMENT				
authorization to charge deposit account with the IPEA (see below) cheque revenue stamps postal money order coupons bank draft other (specify):				
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT (This mode of payment may not be available at all IPEAs) IPEA/ US				
Authorization to charge the total fees indicated above. (This check-box may be marked only if the conditions for deposit accounts of the IPEA so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.	Deposit Account No.:04-1105 Date: July 25, 2003 Name: Peter F. Gorless Signature:			

Form PCT/IPEA/401 (Annex) (March 2001; reprint July 2003) LegalStar 2003, Form PCTDFEE See Notes to the fee calculation sheet

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